

Monitoring Data Record

Project Title: U-2524AB Site 28 COE Action ID: 200321137

Stream Name: UT to Hickory Creek DWQ Number: 030909

City, County and other Location Information: Greensboro Western Loop, Guilford Co.

Sta. 29+00 to 32+00 – 40 SB REV-

Date Construction Completed: Water was turned into the stream on July 2005 and planted

February 2006. Monitoring Year: ( 3 ) of 5

Ecoregion:  8 digit HUC unit 03030002

USGS Quad Name and Coordinates:

**Rosen Classification:** Proposed reach is a C4 stream type

Length of Project: 935' Urban or Rural: Urban Watershed Size:

Monitoring DATA collected by: M. Green & J. Young Date: 1/16/08

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Road Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:

Name:

Address:

Telephone Number:  Email address:

**Project Status:** Complete

**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level (1) ~~2~~ ~~3~~

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

**Permit States:** NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES

*(Monitoring at all levels must complete this section)*

**Total number of reference photo locations at this site:** 9 reference points, 2 photos at each

**Dates reference photos have been taken at this site:** 7/26/06, 2/16/07, 7/19/07, 1/16/08

**Individual from whom additional photos can be obtained (name, address, phone):**

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

**Section 2. PLANT SURVIVAL**

**Attach plan sheet indicating reference photos.**

Identify specific problem areas (missing, stressed, damaged or dead plantings):

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Estimated causes, and proposed/required remedial action: \_\_\_\_\_

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ADDITIONAL COMMENTS: At the time of monitoring vegetation was dormant. Planted hardwood vegetation noted onsite includes: green ash, tulip poplar, river birch, black willow, silky dogwood, and sycamore. Other vegetation onsite included: *Juncus* sp., sedge, *Sagittaria* sp., *Scirpus* sp., goldenrod, cattail, *Cyperus* sp., fescue, clover, lespedeza, and various grasses. Type II plant species were replanted in the floodplain after the silt fence was removed adjacent to Ramp C.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the Year 3 winter evaluation for this stream relocation. The channel is stabilized throughout the stream relocation. The headcut at the crossvane (PP #6 Downstream) that was previously noted at Sta. 30+00 – 40SBREV- has been partially repaired and is currently stable. The channel bed behind the crossvane needs to have material added to the existing bed rock to force the water to flow across the top rock in the channel bed. This work should take place soon. NCDOT will continue to monitor this stream relocation.

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Date Inspected	Sta. 30+00 – 40SBREV-	Station Number	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?	Water is piping around crossvane				
Head cut or down cut present?	Headcut				
Bank or scour erosion present?					



# UT Hickory Creek

Site 28



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

Year 3 Winter – January 2008



# UT Hickory Creek

Site 28



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Year 3 Winter – January 2008



# UT Hickory Creek

Site 28



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

Year 3 Winter – January 2008